TCM-59V

SERVICE MANUAL



US Model Canadian Model AEP Model **UK Model** E Model

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MT-59-30

SPECIFICATIONS

Recording system

2-track 1 channel monaural

Frequency range

150-8,000Hz

Speaker

Twin speakers, approx. 3.6 cm (1 7/16 in.) dia.

Power output

350 mW (at 10% harmonic distortion)

Input

Microphone input jack (minijack) sensitivity 0.21 mV for 3 kilohms or lower impedance microphone

Earphone jack (minijack) for 8-300 ohms earphone

Power requirements

- Two R6 (size AA) batteries (not supplied): 3V DC DC IN 3V jack accepts:
- Sony AC-É30HG AC power adaptor (not supplied) suitable in the country where the unit is to be used.
- Sony DCC-E130L car battery cord (not supplied) for use on 12 V car battery.

Dimentions (w/h/d)(incl. projecting parts and controls)

Approx. $88.7 \times 113.0 \times 37.2$ mm $(3^{1}/2 \times 4^{1}/2 \times 1^{1}/2 \text{ in.})$

Mass(not intl. batteries)

Approx. 220 g (7.8 oz)

Design and specifications are subject to change without notice.

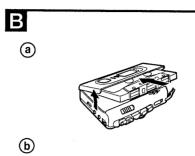
CASSETTE CORDER SONY

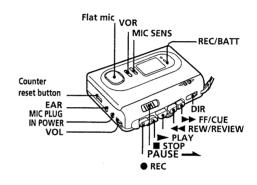
SECTION 1 GENERAL

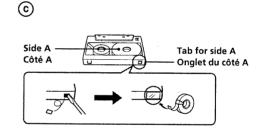
This section is extracted from instruction manual.

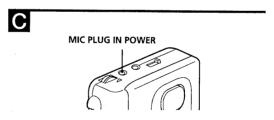
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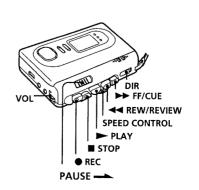
Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.





SECTION 2 SERVICE NOTE

In this set, the PH701 (photoreflector) detects rotation of S/T reels. It is mounted on the main board, and threrefore the reel rotation cannot be detected with the main board

If it is removed, the auto stop functions. When making an operation check and voltage check of mechanical deck with the main board removed, perform as follows.

How to remove main board (how to open the set)

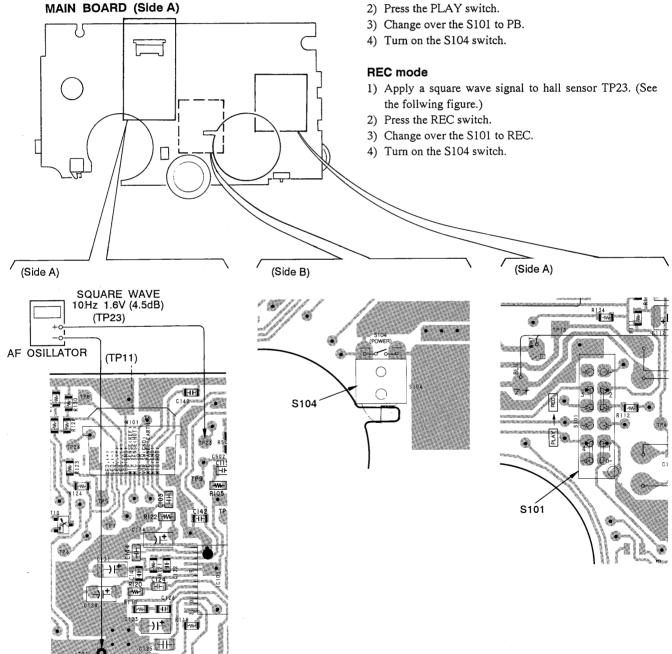
- 1) Remove two screws.
- 2) Remove the mic flexible board W101.

FF/REW mode

- 1) Apply a square wave signal to hall sensor TP23. (See the follwing figure.)
- 2) Press the FF or REW switch.
- 3) Turn on the S104 switch.

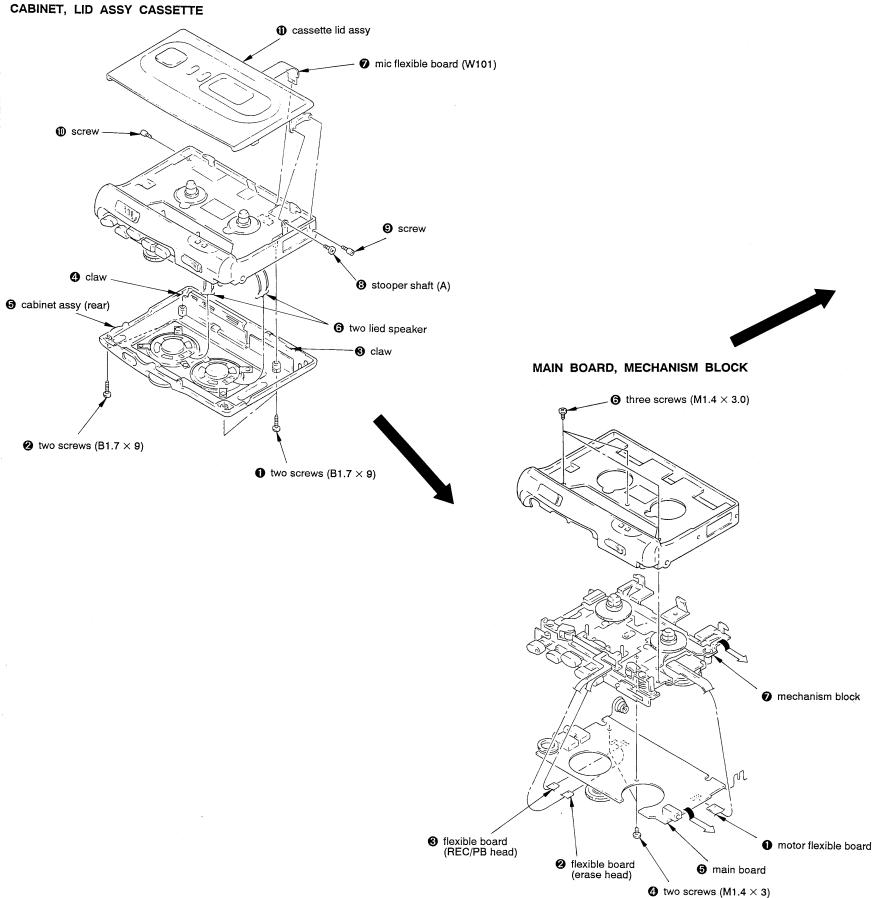
PLAY mode

- 1) Apply a square wave signal to hall sensor TP23. (See the follwing figure.)
- 2) Press the PLAY switch.

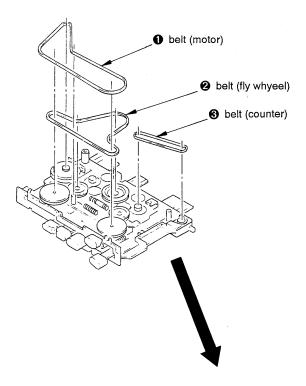


SECTION 3 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

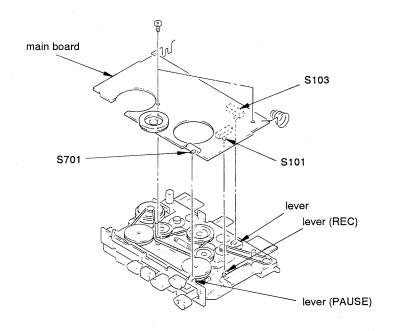


BELT



HOW TO THE MAIN BOARD

Check that switch S101, 103, 701 is latched with lever (REC), lever, lever (PAUSE) when carrying out installation of the main board.



SECTION 4 MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head pinch roller erase head rubber belts

capstan idlers

- 2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- 3. Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage (3 V) unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CO 103C	20 - 35 g•cm (0.28 - 0.48 oz•inch)
FWD Back Tension	CQ-102C	0.5 - 5 g*cm (0.007 - 0.069 oz*inch)
REV	CO 102PC	20 - 35 g•cm (0.28 - 0.48 oz•inch)
REV Back Tension	CQ-102RC	0.5 - 5 g*cm (0.007 - 0.069 oz*inch)
FF	CO 201B	more than 40 g•cm
REW	CQ-201B	(more than 0.56 oz•inch)

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 60 g
REV	CQ-403R	(more than 0.84 oz•inch)

SECTION 5 ELECTRICAL ADJUSTMENTS

PRECAUTION

 Perform adjustment under the following condition, unless otherwise specified.

•	Positions of switches and control knobs	
	VOLUME knob	maximum
	FWD/REV switch	FWD
	SPEED CONTROL knob	mechanical center
	VOR switch	OFF

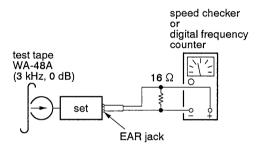
Test tape

Туре	signal	Used for
WS-48A	3 kHz, 0 dB	tape speed adjustment

Tape Speed Adjustment

Procedure:

Mode: FWD playback

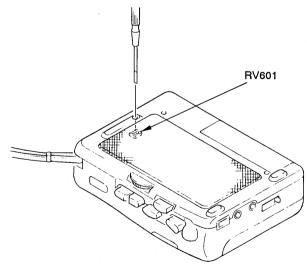


Adjustment Value:

Speed checker	Digital frequency counter
3,000 Hz	2,970~3,030 Hz

Adjust the RV601 so that a difference in frequency at the start of tape winding and at the end of winding is within 1% (30 Hz) respectively. After adjustment, select the REV PLAY mode, and confirm that the characteristics satisfy the standard.

Adjustment Location: MAIN BOARD



SECTION 6 **DIAGRAMS**

6-1. PRINTED WIRING BOARDS

Semiconductor

Lo	catio	n	
Ref.	No.	Location	
D70 D90 D90 D90	1 2	B-23 I-20 J-20 J-20	
1C1 1C5 1C6 1C7 1C7	01 01 01	D-7 B-8 E-3 C-4 B-4	
010 010 010 050 060 060 070 070 070 070 070 070 070	23111234123456789	D-18 C-19 C-18 C-20 E-23 E-24 E-24 E-23 C-3 C-3 C-5 C-5 C-19 C-3 C-3	

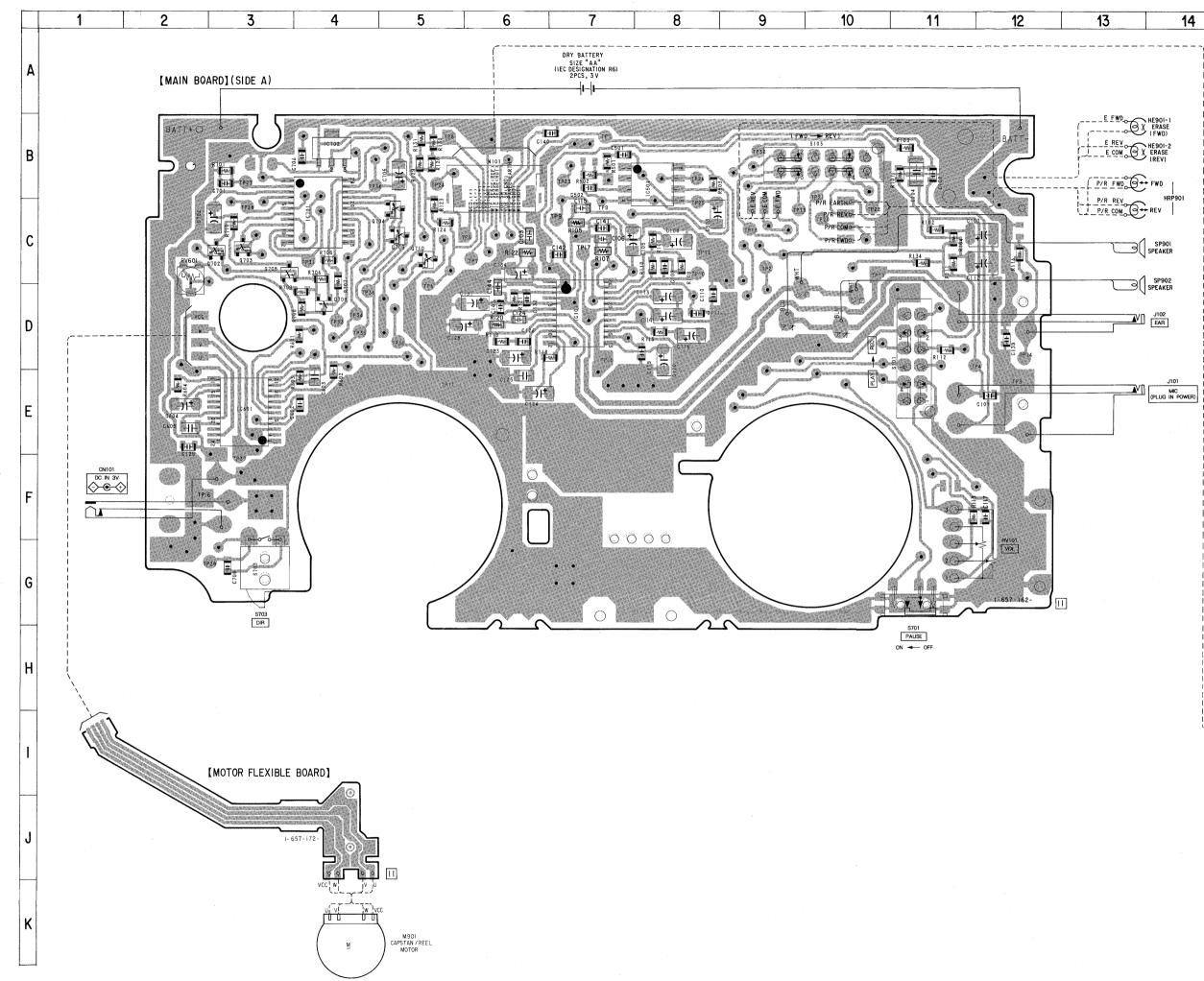
- parts extracted from the component side.
- parts extracted from the component side.
 Through hole.
 Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

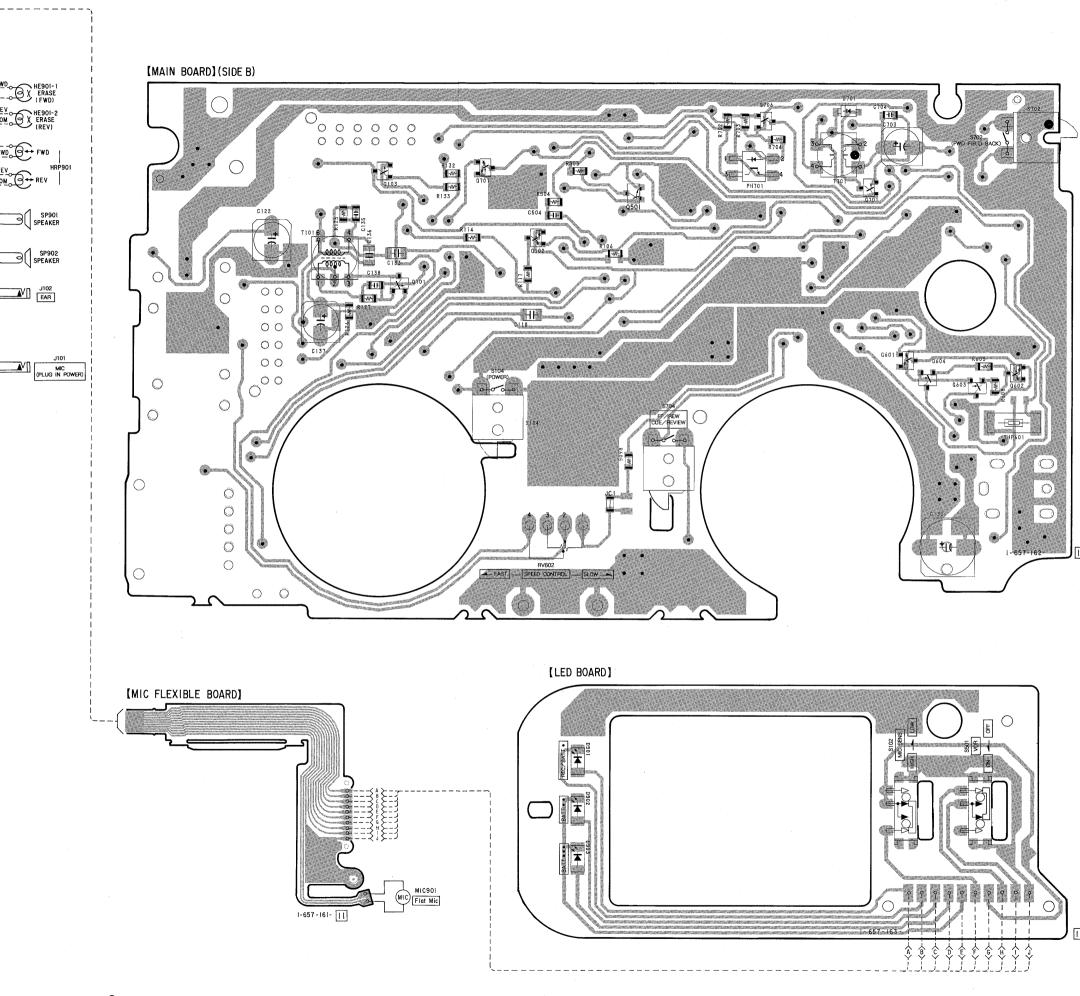
С	au	itio	n:	

Pattern face side: Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.

Parts face side: Parts on the parts face side seen from the

(Component Side) parts face are indicated.





19 20

E REV HE901-2

E COM X ERASE
(REV)

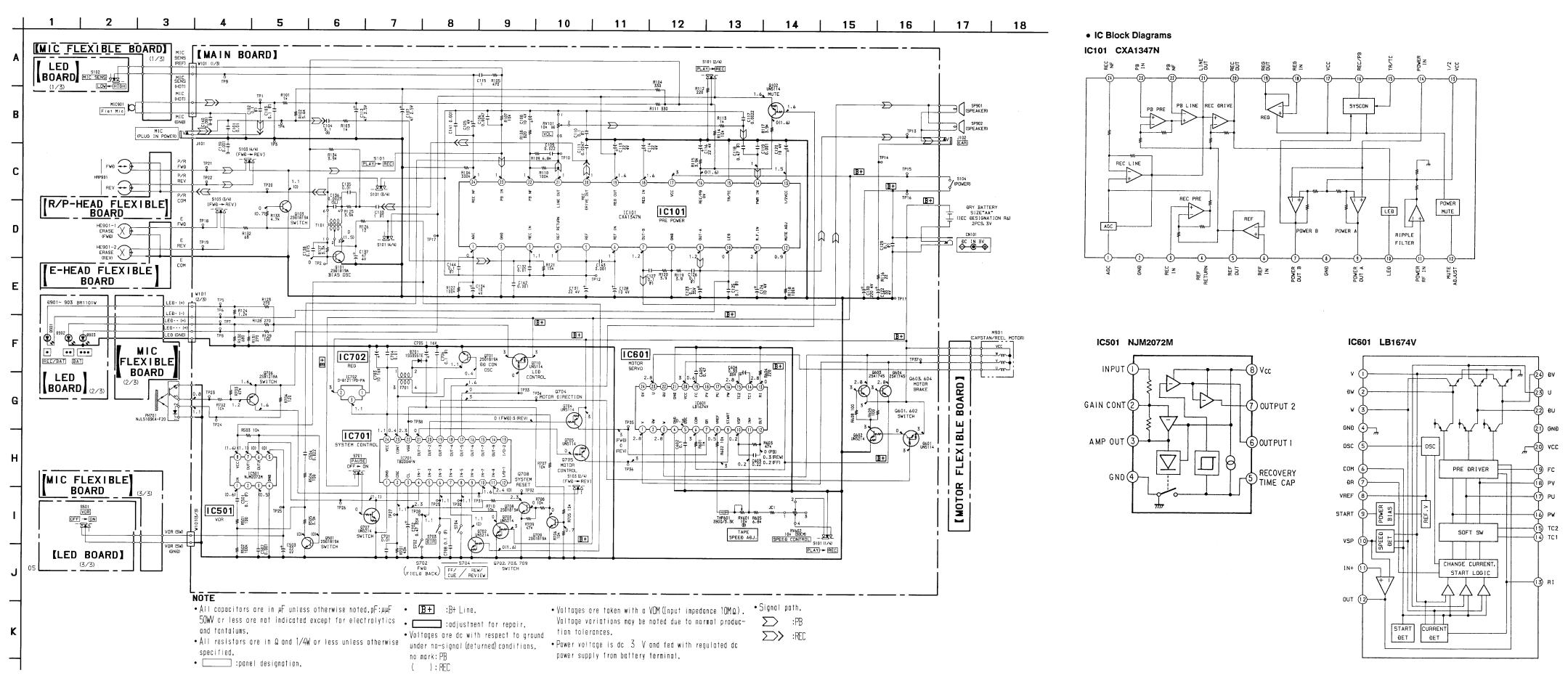
SP901 SPEAKER

SP902 SPEAKER

J102 EAR

21 22 23 24

6-2. SCHEMATIC DIAGRAM



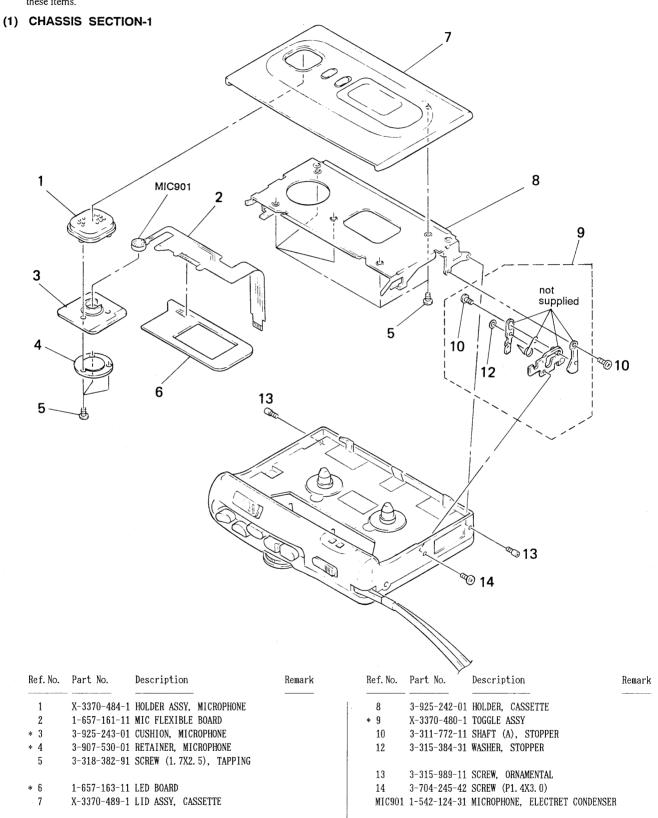
6-3. IC PIN FUNCTION
MAIN BOARD IC701 TB2004FN-016-ER (System Control)

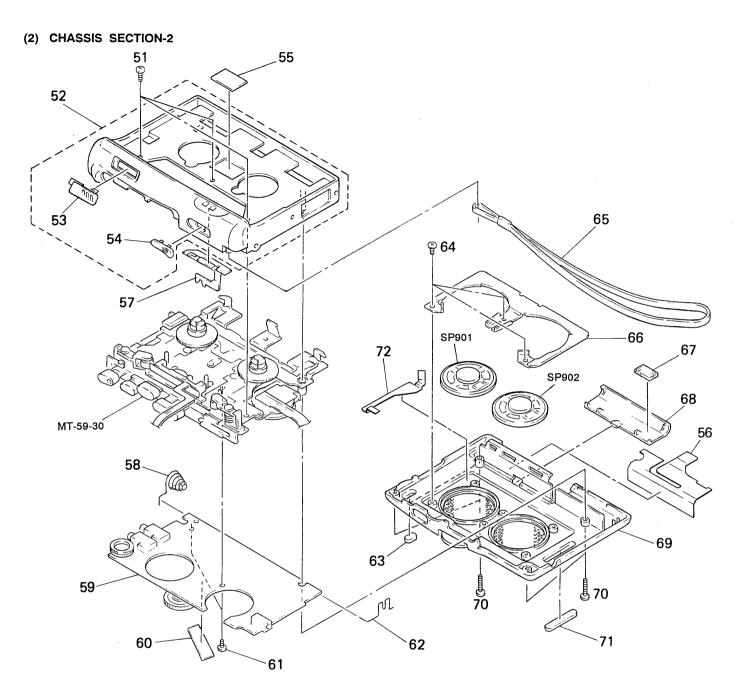
Pin No.	Pin Name	I/O	Function
1	GND		GND
2	OSC		For system clock generation (fosc=3.2 kHz)
3	CL	I	RESET input
4	IN-1	I	Pause ON/OFF by PAUSE SW and VOR "L": ON, "H": OFF
5	IN-2	I	FWD reset by cassette cover open-close "L": ON, "H": OFF
6	IN-3	I	Direction "L": ON, "H": OFF
7	IN-4	I	REC/PB switching "L": REC, "H": PB
8	IN-5	I	FF/REW "L": ON, "H": OFF
9	IN-6	I	POWER ON/OFF "L": ON, "H": OFF
10	IN-7	I	Photoreflector pulse input for tape end detection
11	IN-8	I	FWD/REV switching "L": FWD, "H": RFV
12	I/O-1		Not used
13	I/O-2		Not used
14	OUT-8		Not used
15	OUT-7		Not used
16	OUT-6		Not used
17	OUT-5	0	LED ON/OFF "L": ON, "H": OFF
18	OUT-4	0	Audio mute "L": ON, "H": OFF
19	OUT-3	0	Motor breake "L": ON, "H": OFF
20	OUT-2	0	Motor direction "L": FWD, "H": REV
21	OUT-1	0	Motor ON/OFF "L": ON, "H": OFF
22	VDD		Power supply for CMOS
23	CONT	0	Boosting circuit control output
24	VCC	_	Power supply for bipolar

SECTION 7 EXPLODED VIEWS

NOTE:

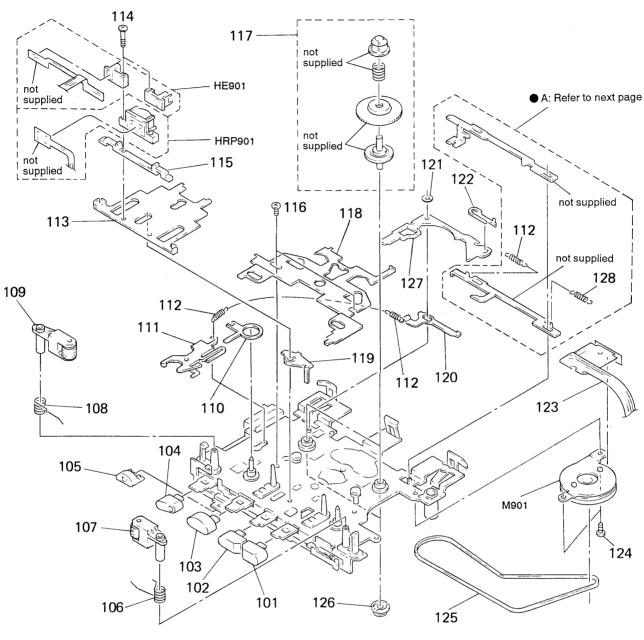
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrical parts list.





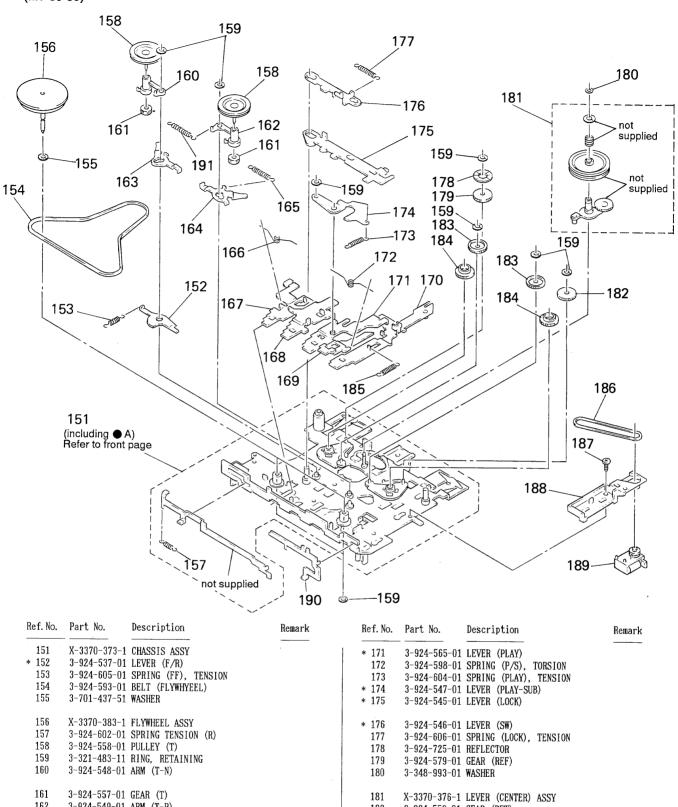
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-704-197-32	SCREW (M1. 4X3. 0)		63	3-925-234-01	FOOT (B), RUBBER	
52	X-3370-487-1	CABINET (FRONT) ASSY		64	3-318-382-31	SCREW (1.7X3), TAPPING	
53	3-925-249-01	KNOB (PAUSE)		65	3-328-319-01	STRAP, HAND	
54	3-925-250-01	KNOB, DIR		* 66	3-926-270-01	BRACKET (SPK)	
55	3-925-231-01	REFLECTOR		67	9-911-815-01	CUSHION	
56	3-927-462-01	SHEET (PICK)		68	3-925-251-01	LID, BATTERY CASE	
* 57	X-3370-490-1	LEVER ASSY		69	X-3370-488-1	CABINET (REAR) ASSY	
58	3-925-230-01	SPRING, BATTERY COIL		70	3-318-203-92	SCREW (B1.7X9), TAPPING	
* 59	A-3016-724-A	MAIN BOARD, COMPLETE		71	3-925-233-01	FOOT (A) RUBBER	
60	4-017-441-01	CUSHION (B)		72	3-926-867-01	PAPER, SHIELD	
61	3-345-648-01	SCREW (M1. 4X3)	-	SP901	1-504-897-11	SPEAKER (3.6 CM)	
62		TERMINAL, PLUS				SPEAKER (3.6 CM)	

(3) MD SECTION-1 (MT-59-30)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101 102	3-925-247-01 3-925-246-01	*		117	X-3370-375-1	SCREW (M1. 4) TABLE ASSY, REEL	
103 104 105	3-925-244-01	BUTTON, PLAY BUTTON, REC BUTTON, STOP		* 119	3-924-535-01 3-924-534-01 3-924-538-01		
106 107 108 109 * 110	X-3370-380-1 3-924-595-01	SPRING (PINCH-N), TORSION ARM (PINCH-R) ASSY SPRING (PINCH-R), TORSION ARM (PINCH-N) ASSY LEVER (DIR)		122 123 124	3-924-569-01 1-657-172-11 3-704-245-42	RING, RETAINING PAD (S-OFF) MOTOR FLEXIBLE BOARD SCREW (P1. 4X3. 0) BELT (MOTOR)	
* 111 112 113 114 * 115	3-924-601-01 X-3370-378-1 3-355-407-01	LEVER (DIR-M) SPRING TENSION (N) LEVER (HEAD) ASSY SCREW (M1.4), STEP BRACKET (HEAD)		* 127 128 HE901	3-924-536-01 3-924-602-01 1-500-247-11	PULLEY (COUNTER) LEVER (OFF) SPRING TENSION (R) HEAD, MAGNETIC (ERASE) HEAD, MAGNETIC (RECORD/PLAYBACK))
				M901	1-698-581-11	MOTOR, DC (CAPSTAN/REEL)	

(4) MD SECTION-2 (MT-59-30)



	- <u> </u>		
151	X-3370-373-1 CHASSIS ASSY	* 171	3-924-565-01 LEVER (PLAY)
* 152	3-924-537-01 LEVER (F/R)	172	3-924-598-01 SPRING (P/S), TORSION
153	3-924-605-01 SPRING (FF), TENSION	173	3-924-604-01 SPRING (PLAY), TENSION
154	3-924-593-01 BELT (FLYWHYEEL)	* 174	3-924-547-01 LEVER (PLAY-SUB)
155	3-701-437-51 WASHER	* 175	3-924-545-01 LEVER (LOCK)
156	X-3370-383-1 FLYWHEEL ASSY	170	0 004 F40 04 I PURD (OW)
157	3-924-602-01 SPRING TENSION (R)	* 176	3-924-546-01 LEVER (SW)
158		177	3-924-606-01 SPRING (LOCK), TENSION
	3-924-558-01 PULLEY (T)	178	3-924-725-01 REFLECTOR
159	3-321-483-11 RING, RETAINING	179	3-924-579-01 GEAR (REF)
160	3-924-548-01 ARM (T-N)	180	3-348-993-01 WASHER
161	3-924-557-01 GEAR (T)	181	X-3370-376-1 LEVER (CENTER) ASSY
162	3-924-549-01 ARM (T-R)	182	3-924-556-01 GEAR (REW)
* 163	3-924-539-01 LEVER (REW-F)	183	3-924-562-01 GEAR (FF)
* 164	3-924-540-01 LEVER (REW-R)	184	3-924-560-01 GEAR (REEL)
165	3-924-603-01 SPRING (F/R), TENSION	185	
100	o our ood of billing (1/h), Thibling	103	3-924-600-01 SPRING (REC), TENSION
166	3-924-597-01 SPRING (F/R), TORSION	186	3-907-946-01 BELT (COUNTER)
* 167	3-924-568-01 LEVER (FF)	187	3-704-245-42 SCREW (P1.4X3.0)
* 168	3-924-567-01 LEVER (REW)	* 188	3-924-664-01 BRACKET (COUNTER)
* 169	3-924-566-01 LEVER (STOP)	189	1-548-582-11 COUNTER, TAPE (SMALL TYPE)
* 170	X-3370-377-1 LEVER (REC) ASSY	* 190	3-924-574-01 LEVER (PAUSE)
			and an an an areas
		191	3-924-607-01 SPRING (ARM-T), TENSION

SECTION 8 ELECTRICAL PARTS LIST

LED MAIN

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms.
 METAL:Metal-film resistor.
 METAL OXIDE: Metal oxide-film resistor.
 F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS In each case, u: μ , for example: uA ..: μ A. uPA.: μ PA. uPB.: μ PB. uPC.: μ PC. uPD.: μ PD.
- CAPACITORS uF: μ F
- COILS uH: µH

When indicating parts by reference number, please include the board.

* 1-657-163-11 LED BOARD ************************************	Remai		Description	Part No.	Ref. No.	mark	Re		Description	Part No.	Ref. No.
Second		0. 1uF	CERAMIC CHIP	1-163-038-00	C125		_		LED BOARD	1-657-163-11	*
Section Sec	:	0. 1uF	CERAMIC CHIP	1-164-360-11	C126				*****		
D901 8-719-049-23 DIODE BRIIOLW (REC/BATT •) C129 1-164-360-11 CERAMIC CHIP D10F	:		CERAMIC CHIP	1-164-360-11					< DIODE >		
D902 8-719-049-23 D10DE BR1101W (BATT ••) C130 1-126-246-11 ELECT CHIP 220uf	20%	10uF	TANTALUM CHIP	1-135-201-11	C128						
Second S	:		CERAMIC CHIP	1-164-360-11			•)	V (REC/BATT	DIODE BR1101W	8-719-049-23	
C132	20%	220uF	ELECT CHIP	1-126-246-11	C130)	V (BATT • •	DIODE BR1101W	8-719-049-23	D902
S102 1-572-922-11 SWITCH, SLIDE (MIC SENS) C134 1-135-201-11 TATALUM CHIP 10uF	20%	22uF	TANTAL. CHIP	1-104-847-11	C131		•)	√ (BATT • •	DIODE BR1101W	8-719-049-23	D903
S102 1-572-922-11 SWITCH, SLIDE (MIC SENS) C134 1-135-201-11 TANTALUM CHIP 10uF	10%	0. 01uF	CERAMIC CHIP	1-162-970-11	C132		•		< SWITCH >		
S501 1-572-922-11 SWITCH, SLIDE (VOR) C135 1-162-970-11 CERAMIC CHIP 0.0027uF	:	1uF	CERAMIC CHIP	1-164-346-11	C133						
**************************************	20%	10uF	TANTALUM CHIP	1-135-201-11	C134			(MIC SENS)	SWITCH, SLIDE (1-572-922-11	S102
* A-3016-724-A MAIN BOARD, COMPLETE **********************************	10%	0. 01uF	CERAMIC CHIP	1-162-970-11	C135			(VOR)	SWITCH, SLIDE (1-572-922-11	S501
C138 1-164-245-11 CERAMIC CHIP 0.01uF C139 1-162-964-11 CERAMIC CHIP 0.01uF C140 1-162-964-11 CERAMIC CHIP 0.001uF C140 1-164-360-11 CERAMIC CHIP 0.1uF 16V C142 1-162-964-11 CERAMIC CHIP 0.001uF C140 1-163-077-00 CERAMIC CHIP 0.1uF 16V C143 1-162-964-11 CERAMIC CHIP 0.1uF C104 1-133-077-00 CERAMIC CHIP 0.1uF 10W 25V C144 1-164-360-11 CERAMIC CHIP 0.1uF C501 1-164-360-11 CERAMIC CHIP 0.1uF C501 1-164-360-11 CERAMIC CHIP 0.1uF C501 1-162-964-11 CERAMIC CHIP 0.2uF C501 1-162-964-11 CERAMIC CHIP 0.2uF C501 1-164-227-11 CERAMIC CHIP 0.2uF C501 1-164-360-11 CERAMIC CHIP 0.1uF C501 1-164-360-11 CERAMIC CHIP 0.1uF C501 1-164-360-11 C501	ıF 5% 5	0. 0027uF	CERAMIC CHIP	1-163-014-00	C136	****	******	******	******	******	******
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	20%	47uF	ELECT CHIP	1-126-607-11	C137			IPLETE	MAIN BOARD, COM	A-3016-724-A	*
C140	10%	0.015uF	CERAMIC CHIP	1-164-245-11	C138			****	******		
C141 1-162-964-11 CERAMIC CHIP 0.01uF 10% 25V	10%	0.001uF	CERAMIC CHIP	1-162-964-11	C139						
C101	10%	0.001uF	CERAMIC CHIP	1-162-964-11	C140				< CAPACITOR >		
C102	10%	0.001uF	CERAMIC CHIP	1-162-964-11	C141						
C103						25V	10%	0. 01uF	CERAMIC CHIP	1-162-970-11	C101
C104	10%	0.001uF	CERAMIC CHIP	1-162-964-11	C142	16V		0. 1uF	CERAMIC CHIP	1-164-360-11	C102
C105	10%	0.001uF	CERAMIC CHIP	1-162-964-11	C143	16V		0. 1uF	CERAMIC CHIP	1-164-360-11	C103
C502 1-162-968-11 CERAMIC CHIP 0.0047uF 10% 50V C107 1-107-493-11 TANTAL. CHIP 47uF 20% 2.5V C503 1-104-847-11 TANTAL. CHIP 22uF C108 1-135-201-11 TANTALUM CHIP 10uF 20% 4V C504 1-164-227-11 CERAMIC CHIP 0.022uF C109 1-164-227-11 CERAMIC CHIP 0.022uF 10% 25V C602 1-107-826-11 CERAMIC CHIP 0.1uF C110 1-164-360-11 CERAMIC CHIP 0.1uF 16V C603 1-164-489-11 CERAMIC CHIP 0.22uF C111 1-162-968-11 CERAMIC CHIP 0.0047uF 10% 50V C112 1-107-493-11 TANTAL. CHIP 47uF 20% 2.5V C605 1-107-823-11 CERAMIC CHIP 0.47uF C113 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C701 1-162-970-11 CERAMIC CHIP 0.01uF C114 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C702 1-135-145-11 TANTALUM CHIP 0.47uF C115 1-164-346-11 CERAMIC CHIP 1uF 16V C703 1-124-779-00 ELECT CHIP 0.01uF C116 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C117 1-162-966-11 CERAMIC CHIP 0.0022uF 10% 50V C705 1-135-091-00 TANTAL. CHIP 1uF C118 1-164-005-11 CERAMIC CHIP 0.47uF 25V C706 1-164-360-11 CERAMIC CHIP 0.1uF C118 1-164-005-11 CERAMIC CHIP 0.47uF 25V C706 1-164-360-11 CERAMIC CHIP 0.1uF C119 1-162-964-11 CERAMIC CHIP 0.001uF 10% 50V C708 1-164-360-11 CERAMIC CHIP 0.1uF	10%	0. 1uF	CERAMIC CHIP	1-164-360-11	C144	25V	10%	0. 1uF	CERAMIC CHIP	1-163-077-00	C104
C106	:	0. 1uF	CERAMIC CHIP	1-164-360-11	C501	4V	20%	10uF	TANTALUM CHIP	1-135-201-11	C105
C107	10%	0.001uF	CERAMIC CHIP	1-162-964-11	C502						
C108						50V	10%	0.0047uF	CERAMIC CHIP	1-162-968-11	C106
C109	20%	22uF			C503	2. 5V	20%	47uF	TANTAL. CHIP	1-107-493-11	C107
C110 1-164-360-11 CERAMIC CHIP 0. 1uf 16V C603 1-164-489-11 CERAMIC CHIP 0. 22uf C604 1-135-073-00 TANTALUM CHIP 0. 33uf C111 1-162-968-11 CERAMIC CHIP 0. 0047uf 10% 50V C701 1-162-970-11 CERAMIC CHIP 0. 47uf 20% 2. 5V C605 1-107-823-11 CERAMIC CHIP 0. 47uf C113 1-104-847-11 TANTAL. CHIP 22uf 20% 4V C701 1-162-970-11 CERAMIC CHIP 0. 01uf C114 1-104-847-11 TANTAL. CHIP 22uf 20% 4V C702 1-135-145-11 TANTALUM CHIP 0. 47uf C115 1-164-346-11 CERAMIC CHIP 1uf 16V C703 1-124-779-00 ELECT CHIP 10uf C704 1-162-970-11 CERAMIC CHIP 0. 01uf C704 1-162-970-11 CERAMIC CHIP 0. 01uf C704 1-162-970-11 CERAMIC CHIP 0. 01uf C704 1-162-966-11 CERAMIC CHIP 0. 0022uf 10% 50V C705 1-135-091-00 TANTAL. CHIP 1uf C118 1-164-005-11 CERAMIC CHIP 0. 47uf 25V C706 1-164-360-11 CERAMIC CHIP 0. 1uf C119 1-162-964-11 CERAMIC CHIP 0. 001uf 0. 1uf C708 1-164-360-11 CERAMIC CHIP 0. 1uf C708 1-164-360-11 CERAMIC CHIP 0. 1uf C709 1-162-964-11 CERAMIC CHIP 0. 01uf 0. 1uf 0. 01uf 0.	10%	0. 022uF					20%		TANTALUM CHIP	1-135-201-11	
C604 1-135-073-00 TANTALUM CHIP 0.33uF C111 1-162-968-11 CERAMIC CHIP 0.0047uF 10% 50V C112 1-107-493-11 TANTAL. CHIP 47uF 20% 2.5V C605 1-107-823-11 CERAMIC CHIP 0.47uF C113 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C701 1-162-970-11 CERAMIC CHIP 0.01uF C114 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C702 1-135-145-11 TANTALUM CHIP 0.47uF C115 1-164-346-11 CERAMIC CHIP 1uF 16V C703 1-124-779-00 ELECT CHIP 10uF C116 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C117 1-162-966-11 CERAMIC CHIP 0.0022uF 10% 50V C705 1-135-091-00 TANTAL. CHIP 1uF C118 1-164-005-11 CERAMIC CHIP 0.47uF 25V C706 1-164-360-11 CERAMIC CHIP 0.1uF C119 1-162-964-11 CERAMIC CHIP 0.001uF 10% 50V C708 1-164-360-11 CERAMIC CHIP 0.1uF	10%	0. 1uF	CERAMIC CHIP	1-107-826-11	C602	25V	10%	0. 022uF	CERAMIC CHIP	1-164-227-11	C109
C111 1-162-968-11 CERAMIC CHIP 0.0047uF 10% 50V C112 1-107-493-11 TANTAL. CHIP 47uF 20% 2.5V C605 1-107-823-11 CERAMIC CHIP 0.47uF C113 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C701 1-162-970-11 CERAMIC CHIP 0.47uF C114 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C702 1-135-145-11 TANTALUM CHIP 0.47uF C115 1-164-346-11 CERAMIC CHIP 1uF 16V C703 1-124-779-00 ELECT CHIP 10uF C704 1-162-970-11 CERAMIC CHIP 0.01uF C116 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C117 1-162-966-11 CERAMIC CHIP 0.0022uF 10% 50V C705 1-135-091-00 TANTAL. CHIP 1uF C118 1-164-005-11 CERAMIC CHIP 0.47uF 25V C706 1-164-360-11 CERAMIC CHIP 0.1uF C119 1-162-964-11 CERAMIC CHIP 0.001uF 10% 50V C708 1-164-360-11 CERAMIC CHIP 0.1uF	10%	0. 22uF	CERAMIC CHIP	1-164-489-11	C603	16V		0. 1uF	CERAMIC CHIP	1-164-360-11	C110
C112 1-107-493-11 TANTAL. CHIP 47uF 20% 2.5V C605 1-107-823-11 CERAMIC CHIP 0.47uF C113 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C701 1-162-970-11 CERAMIC CHIP 0.01uF C114 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C702 1-135-145-11 TANTALUM CHIP 0.47uF C115 1-164-346-11 CERAMIC CHIP 1uF 16V C703 1-124-779-00 ELECT CHIP 10uF C704 1-162-970-11 CERAMIC CHIP 0.01uF C116 1-104-847-11 TANTAL. CHIP 22uF 20% 4V C705 1-135-091-00 TANTAL. CHIP 0.001uF C116 1-162-966-11 CERAMIC CHIP 0.0022uF 10% 50V C705 1-135-091-00 TANTAL. CHIP 1uF C118 1-164-005-11 CERAMIC CHIP 0.47uF 25V C706 1-164-360-11 CERAMIC CHIP 0.1uF C119 1-162-964-11 CERAMIC CHIP 0.001uF 10% 50V C708 1-164-360-11 CERAMIC CHIP 0.1uF 0.1uF	10%	0. 33uF	TANTALUM CHIP	1-135-073-00	C604	FOU	4.00/	0.0045 E	GEDANIA GUID		0111
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C117 1-162-966-11 CERAMIC CHIP 0.0022uF 10% 50V C705 1-135-091-00 TANTAL. CHIP 1uF C118 1-164-005-11 CERAMIC CHIP 0.47uF 25V C706 1-164-360-11 CERAMIC CHIP 0.1uF C119 1-162-964-11 CERAMIC CHIP 0.001uF 10% 50V C708 1-164-360-11 CERAMIC CHIP 0.1uF	10/0	o. o.u.	OLIGHIEU OIIII	1 102 310 11	010-1	4V	20%	22uF	TANTAL. CHIP	1-104-847-11	C116
C118 1-164-005-11 CERAMIC CHIP 0. 47uF 25V C706 1-164-360-11 CERAMIC CHIP 0. 1uF C119 1-162-964-11 CERAMIC CHIP 0. 001uF 10% 50V C708 1-164-360-11 CERAMIC CHIP 0. 1uF	20%	1uF	TANTAL. CHIP	1-135-091-00	C705						
C119 1-162-964-11 CERAMIC CHIP 0.001uF 10% 50V C708 1-164-360-11 CERAMIC CHIP 0.1uF											
							10%				
C122 1-126-207-11 ELECT CHIP 33uF 20% 4V			< CONNECTOR >			AV	20%	3311F	FIECT CHID	1-126-207-11	C199
C122 1-120-207-11 ELECT CHIP 33UF 20% 4V C123 1-135-070-00 TANTALUM CHIP 0. 1uf 10% 35V CN101 1-580-372-41 JACK. DC (POLARITY UNIFIED	'n TVPF) (nc 1	CA HNIETED	TACK DC/DOLABIT	1-580-372-41	CN101						
C123 1-133-070-00 TANTALUM CHIP 0. 1dr 10x 33V CNIOT 1-380-372-41 3ACK, DC (FOLARITY ON FIED	ν IIIE/ (DU II	.i oniried	ORON, DO (FULANTI	1 300 374-41	ONTOI						

MAIN

Colore Ratio 1-216-833-11 METAL CHIP 10K 5X 1/18K 1/18K 1-216-823-11 METAL CHIP 10K 5X 1/18K 1	Ref. No.	Part No.	Description	1	Remark	Ref. No.	Part No.	Description			Remark
10 1 1 1 1 1 1 1 1 1			< DIODE >			R107	1-216-833-11	METAL CHIP	10K	5%	1 /1 GW
\$\text{Pi01} \$\text{Pi02} \$\text{Pi08} \text{Pi08} \text{ \$\text{Sign}\$ \$\text{Lips}\$ \\ \$\text{Rio} \$\text{1-21-68-3-1-1} \text{ \$\text{METAL}\$ \text{ \$\text{CIP}\$ \$\text{2-10} \text{ \$\text{Sign}\$ \$\text{Lips}\$ \\ \$\text{Rio} \$\text{1-21-68-3-1-1} \text{ \$\text{METAL}\$ \text{ \$\text{CIP}\$ \$\text{2-10} \text{ \$\text{Sign}\$ \$\text{Lips}\$ \\ \$\text{Rio} \$\text{1-21-68-3-1-1} \text{ \$\text{METAL}\$ \text{ \$\text{CIP}\$ \$\text{2-20} \text{ \$\text{Sign}\$ \$\text{Lips}\$ \\ \$\text{Lips} \$\text{Lips}\$ \$\text{Lips}\$ \$\text{Lips}\$ \\ \$\text{Lips} \$\text{Lips}\$ \$\text{Lips}\$ \$\text{Lips}\$ \$\text{Lips}\$ \$\text{Lips}\$ \$\text{Lips}\$ \\ \$\text{Lips}\$ \$\						1					•
STO	D701	8-719-988-62	DIODE 1SS	3355							
C						1					
Color 8-752-036-38 C CX1347N			< IC >			1					_,
1.	T0101	0 550 000 00	7.0			R111			330	5%	1/16W
1							1-216-813-11	METAL CHIP	220	5%	1/16W
1/10 8-759-944-30 IC Ta2004PM-016-ER						1				5%	1/16W
Section Sect										-	
STATE STAT						KII5	1-216-828-11	METAL CHIP	3. 9K	5%	1/16W
STACK STAC		0 100 100 00	10 5 0121.	II G IA II		R116	1-216-201-11	METAL CHID	22	ΕOV	1 /1 CW
No. Part P			< JACK >			1					-
1-563-319-21 JACK (GLR)						1					
	J101	1-563-319-21	JACK (MIC (PI	LUG IN POWER))		1					
Color Colo	J102	1-563-319-21	JACK (EAR)								
Total 1-216-864-11 METAL CHIP 0 5% 1/16W 1123 1-216-845-11 METAL CHIP 100% \$5% 1/16W 1123 1-216-846-11 METAL CHIP 100% \$5% 1/16W 1123 1-216-846-11 METAL CHIP 100% \$5% 1/16W 1123 1-216-846-11 METAL CHIP 1.2K \$5% 1/16W 1125 1-216-822-11 METAL CHIP 1.2K \$5% 1/16W 1125 1-216-821-11 METAL CHIP 1.2K \$5% 1/16W 1.2K \$6% 1/16W 1										0.0	1, 1011
Table Tabl			< JUMPER RES	SISTOR >		R121	1-216-835-11	METAL CHIP	15K	5%	1/16W
R124	704	4 440 400				R122	1-216-845-11	METAL CHIP	100K	5%	
PHOTO REFLECTOR R125 1-216-828-11 METAL CHIP 3.9K 5% 1/16W	JC1	1-216-864-11	METAL CHIP	0 5%	1/16W	R123			270	5%	1/16W
PH701 8-749-925-05 REFLECTOR NJL5183KA-F20-TE1 R126 1-216-838-11 METAL CHIP 3. 9K 5% 1/16W			/ Duomo popu			R124			1. 2K	5%	1/16W
R127 1-216-827-11 METAL CHIP 3.3 k 5% 1/16W			< PHOTO REFL	LECTOR >		R125	1-216-828-11	METAL CHIP	3. 9K	5%	1/16W
R127 1-216-827-11 METAL CHIP 3.3 k 5% 1/16W	PH701	8-749-925-05	REFLECTOR NI	II 5193VA_030_T0	1	D100	1 040 500 44	MDM 1. GT 1. GB			
R128 1-216-814-11 METAL CHIP 270 5% 1/16W	111101	0 743 323 03	TILL LLOTOR NO	TTTTOTKA-L70-1E	1						
Q101 8-729-230-63 TRANSISTOR Q2C4116-YG Q102 8-729-402-95 TRANSISTOR UN5114 Q103 8-729-230-63 TRANSISTOR Q3C4116-YG Q4C4			< TRANSISTOR	3 >							
Q101			\ 1141/1515101	• /		1					
Q102 8-729-402-96 TRANSISTOR UN5114 25C4116-YG R131 1-216-814-11 METAL CHIP 270 5% 1/16W 270	Q101	8-729-230-63	TRANSISTOR	2SC4116-YG							
R131 1-216-814-11 METAL CHIP 270 5% 1/16W	Q102					11130	1 210 013 11	METAL CHIP	000	J <i>T</i> 6	1/10M
R132 1-216-807-11 METAL CHIP 68 5% 1/16W	Q103					R131	1-216-814-11	METAL CHIP	270	5%	1 /16W
R133 1-216-829-11 METAL CHIP 4.7K 5% 1/16W	Q501	8-729-230-63	TRANSISTOR	2SC4116-YG							•
R134 1-216-828-11 METAL CHIP 3. SK 53 1/16W 1/216-809-11 METAL CHIP 100 5% 1/16W 1/16W 1/216-809-11 METAL CHIP 100 5% 1/16W 1/16W 1/216-809-11 METAL CHIP 100 5% 1/16W	Q601	8-729-402-96	TRANSISTOR	UN5114		l.					
R501 1-216-809-11 METAL CHIP 100 5% 1/16W						R134					
Q803 8-729-823-86 TRANSISTOR 25A1745 R502 1-216-845-11 METAL CHIP 100K 5% 1/16W R503 1-216-833-11 METAL CHIP 100K 5% 1/16W R503 1-216-833-11 METAL CHIP 100K 5% 1/16W R503 1-216-828-11 METAL CHIP 100K 5% 1/16W R505 1-216-828-11 METAL CHIP 1/16W 1/16W R505 1/16W R505 1-216-831-11 METAL CHIP 1/16W R505 1-216-831-11 METAL CHIP 1/16W R505 1-216-831-11 METAL CHIP 1/16W R505 1/16W R505 1-216-831-11 METAL CHIP 1/16W R505				UN5214-TX		R501					
Red	•										-,
Q702 8-729-402-93 TRANSISTOR UN5214-TX R504 1-216-809-11 METAL CHIP 100 5% 1/16W R505 1-216-828-11 METAL CHIP 3, 9K 5% 1/16W R505 1-216-828-11 METAL CHIP 3, 9K 5% 1/16W R505 1-216-828-11 METAL CHIP 1K 5% 1/16W R505 1-216-828-11 METAL CHIP 1K 5% 1/16W R601 1-216-821-11 METAL CHIP 1K 5% 1/16W R601 1-216-821-11 METAL CHIP 1K 5% 1/16W R601 1-216-831-11 METAL CHIP 1K 5% 1/16W R602 1-216-833-11 METAL CHIP 1K 5% 1/16W R603 1-216-831-11 METAL CHIP 100 5% 1/16W R604 1-216-831-11 METAL CHIP 100 5% 1/16W R605 1-216-809-11 METAL CHIP 100 5% 1/16W R608 1-216-809-11 METAL CHIP 100 5% 1/16W R701 1-218-295-11 METAL CHIP 100 5% 1/16W R702 1-216-833-11 METAL CHIP 100 5% 1/16W R703 1-216-841-11 METAL CHIP 100 5% 1/16W R704 1-216-810-11 METAL CHIP 100 5% 1/16W R704 1-216-810-11 METAL CHIP 100 5% 1/16W R704 1-216-833-11 METAL CHIP 100 5% 1/16W R704 1-216-833-11 METAL CHIP 100 5% 1/16W R705 1-216-833-11 METAL CHIP 100 5% 1/16W R706 1-216-833-11 METAL CHIP 10K 5% 1/16W R706 1-216-833-11 METAL CHIP 10K 5% 1/16W R707 1-216-833-11 METAL CHIP 10K 5% 1/16W R708 1-216-833-11 METAL CHIP 10K 5% 1/16W R									100K	5%	1/16W
R505 1-216-828-11 METAL CHIP 3. 9K 5% 1/16W	-					R503	1-216-833-11	METAL CHIP	10K	5%	1/16W
Q703 8-729-402-93 TRANSISTOR UN5214-TX UN5114 UN5114 UN5114 UN5114 UN5114 UN5114 UN5114 UN5114 UN5214-TX UN5114 UN5214-TX UN5214-T	Q/UZ	8-729-402-93	TRANSTSTOR	UN5214-TX					100	5%	1/16W
No.	0703	9_790_409_09	TDANC I CTOD	IINCO14 my					3. 9K	5%	1/16W
Red						R601	1-216-821-11	METAL CHIP	1K	5%	1/16W
Red	•					DCOO	1 010 000 44	MDM11 AUTD	4011		
Q707 8-729-402-93 TRANSISTOR UN5214-TX R604 1-216-813-11 METAL CHIP 220 5% 1/16W R605 1-216-831-11 METAL CHIP 6.8K 5% 1/16W R608 1-216-809-11 METAL CHIP 100 5% 1/16W R608 1-216-809-11 METAL CHIP 100 5% 1/16W R701 1-218-295-11 METAL CHIP 100 5% 1/16W R702 1-216-833-11 METAL CHIP 10K 5% 1/16W R703 1-216-831-11 METAL CHIP 10K 5% 1/16W R704 1-216-810-11 METAL CHIP 10K 5% 1/16W R704 1-216-810-11 METAL CHIP 10K 5% 1/16W R704 1-216-810-11 METAL CHIP 10K 5% 1/16W R705 1-216-833-11 METAL CHIP 10K 5% 1/16W R706 1-216-833-11 METAL CHIP 10K 5% 1/16W R707 1-216-833-11 METAL CHIP 10K 5% 1/16W R707 1-216-833-11 METAL CHIP 10K 5% 1/16W R708 1-216-833-11 METAL CHIP 10K 5% 1/16W											
Q708 8-729-230-63 TRANSISTOR ZSC4116-YG R605 1-216-831-11 METAL CHIP 6. 8K 5% 1/16W R608 1-216-809-11 METAL CHIP 100 5% 1/16W R608 1-216-809-11 METAL CHIP 100 5% 1/16W R701 1-218-295-11 METAL CHIP 100 5% 1/16W R702 1-216-833-11 METAL CHIP 10K 5% 1/16W R703 1-216-833-11 METAL CHIP 10K 5% 1/16W R703 1-216-841-11 METAL CHIP 1/16W R704 1-216-810-11 METAL CHIP 1/20 5% 1/16W R704 1-216-810-11 METAL CHIP 1/20 5% 1/16W R705 1-216-833-11 METAL CHIP 1/20 5% 1/16W R706 1-216-833-11 METAL CHIP 1/20 5% 1/16W R707 1-216-833-11 METAL CHIP 1/20 5% 1/16W R707 1-216-833-11 METAL CHIP 1/20 5% 1/16W R707 1-216-833-11 METAL CHIP 1/20 5% 1/16W R708 1-216-833-11 METAL CHIP											
R608 1-216-809-11 METAL CHIP 100 5% 1/16W				3							
Q710 8-729-230-63 TRANSISTOR ZSC4116-YG Q710 8-729-402-96 TRANSISTOR UN5114 R609 1-216-809-11 METAL CHIP 100 5% 1/16W R701 1-218-295-11 METAL CHIP 10K 5% 1/16W R702 1-216-833-11 METAL CHIP 10K 5% 1/16W R703 1-216-841-11 METAL CHIP 47K 5% 1/16W R704 1-216-810-11 METAL CHIP 120 5% 1/16W R704 1-216-810-11 METAL CHIP 120 5% 1/16W R704 1-216-833-11 METAL CHIP 120 5% 1/16W R704 1-216-833-11 METAL CHIP 120 5% 1/16W R705 1-216-833-11 METAL CHIP 10K 5% 1/16W R706 1-216-833-11 METAL CHIP 10K 5% 1/16W R706 1-216-833-11 METAL CHIP 10K 5% 1/16W R707 1-216-833-11 METAL CHIP 10K 5% 1/16W R707 1-216-833-11 METAL CHIP 10K 5% 1/16W R708 1-216	Q708	8-729-230-63	TRANSISTOR	2SC4116-YG							
R701 1-218-295-11 METAL GLAZE 43K 5% 1/16W R702 1-216-833-11 METAL CHIP 10K 5% 1/16W R703 1-216-841-11 METAL CHIP 47K 5% 1/16W R102 1-216-830-11 METAL CHIP 5.6K 5% 1/16W R103 1-216-821-11 METAL CHIP 1K 5% 1/16W R104 1-216-815-11 METAL CHIP 330 5% 1/16W R105 1-216-815-11 METAL CHIP 330 5% 1/16W R106 1-216-815-11 METAL CHIP 470 5% 1/16W R107 1-216-833-11 METAL CHIP 10K 5% 1/16W R108 R707 1-216-833-11 METAL CHIP 10K 5% 1/16W R708 1-216-833-11 METAL CHIP 10K 5% 1/16W R709 1-216-833-11 METAL CHIP 10K 5% 1/16W	Q709			2SC4116-YG			1 210 000 11 1	all the offi	100	J/0	1/10#
R101 1-216-821-11 METAL CHIP 1K 5% 1/16W R702 1-216-833-11 METAL CHIP 10K 5% 1/16W R703 1-216-841-11 METAL CHIP 47K 5% 1/16W R704 1-216-810-11 METAL CHIP 120 5% 1/16W R103 1-216-821-11 METAL CHIP 1K 5% 1/16W R104 1-216-815-11 METAL CHIP 330 5% 1/16W R104 1-216-815-11 METAL CHIP 330 5% 1/16W R105 1-216-833-11 METAL CHIP 10K 5% 1/16W R106 1-216-833-11 METAL CHIP 10K 5% 1/16W R106 1-216-815-11 METAL CHIP 10K 5% 1/16W R706 1-216-833-11 METAL CHIP 10K 5% 1/16W R106 1-216-833-11 METAL CHIP 10K 5% 1/16W R707 1-216-833-11 METAL CHIP 10K 5% 1/16W R708 1-216-833-11 METAL CHIP 10K	Q710	8-729-402-96	FRANSISTOR	UN5114		R609	1-216-809-11	METAL CHIP	100	5%	1/16W
R101 1-216-821-11 METAL CHIP 1K 5% 1/16W R704 1-216-810-11 METAL CHIP 10K 5% 1/16W R102 1-216-830-11 METAL CHIP 1K 5% 1/16W R103 1-216-821-11 METAL CHIP 1K 5% 1/16W R104 1-216-815-11 METAL CHIP 330 5% 1/16W R104 1-216-815-11 METAL CHIP 330 5% 1/16W R105 1-216-817-11 METAL CHIP 370 5% 1/16W R105 1-216-833-11 METAL CHIP 10K 5% 1/16W R105 1-216-831-11 METAL CHIP 10K											
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R101 1-216-821-11 METAL CHIP 1K 5% 1/16W R704 1-216-810-11 METAL CHIP 120 5% 1/16W R102 1-216-830-11 METAL CHIP 5. 6K 5% 1/16W R705 1-216-833-11 METAL CHIP 10K 5% 1/16W R104 1-216-815-11 METAL CHIP 330 5% 1/16W R706 1-216-833-11 METAL CHIP 10K 5% 1/16W R705 1-216-833-11 METAL CHIP 10K 5% 1/16W R707 1-216-833-11 METAL CHIP 10K 5% 1/16W R707 1-216-833-11 METAL CHIP 10K 5% 1/16W R708	D404										
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R104 1-216-815-11 METAL CHIP 330 5% 1/16W R706 1-216-833-11 METAL CHIP 10K 5% 1/16W R105 1-216-817-11 METAL CHIP 470 5% 1/16W R707 1-216-833-11 METAL CHIP 10K 5% 1/16W R708 1-216-833-11 METAL CHIP 10K 5% 1/16W R708 1-216-833-11 METAL CHIP 10K 5% 1/16W R708 1-216-833-11 METAL CHIP 10K 5% 1/16W					1						
R105 1-216-817-11 METAL CHIP 470 5% 1/16W R707 1-216-833-11 METAL CHIP 10K 5% 1/16W R708 1-216-833-11 METAL CHIP 10K 5% 1/16W R708 1-216-833-11 METAL CHIP 10K 5% 1/16W									10K	5%	1/16W
R708 1-216-851-11 METAL CHIP 220K 5% 1/16W										5%	
R106 1-916-951-11 METAL CUID 990V FW 1/10W	HIUJ	1 210-01/-11 M	ETAL CHIP	4/0 5%	1/16W						
1 210 001 11 michae offir 550k 5% 1/16W R709 1-216-841-11 METAL CHIP 47K 5% 1/16W	R106	1-216-251-11 N	FTAI CUID	2201/ ⊏∾	1 /1 CW						
	11100	1 210 001 11 M	FIND AIIL	33UN 3%	1/10#	K7U9	1-216-841-11 N	METAL CHIP	47K	5%	1/16W

ef. No.	Part No.	Description Remark
R710	1-216-833-11	METAL CHIP 10K 5% 1/16W
		< VARIABLE RESISTOR >
		RES, VAR, CARBON 10K/10K (VOL)
		RES, ADJ, CARBON 10K RES, VAR, CARBON 10K (SPEED CONTROL)
		< switch >
S101	1-762-081-11	SWITCH, SLIDE (PLAY/REC) SWITCH, SLIDE (FWD/REV)
		SWITCH, SLIDE (FWD/REV) SWITCH, PUSH (POWER)
		SWITCH, SLIDE (PAUSE)
S702	1-572-688-11	SWITCH, PUSH (FWD FIELD BACK)
		SWITCH, PUSH (DIR) SWITCH, PUSH (FF/REW)
2.01		< TRANSFORMER >
T101	1-433-286-11	TRANSFORMER, BIAS OSCILLATION
		TRANSFORMER, DC-DC CONVERTER
		< THERMISTOR >
THP601	1-810-911-21	THERMISTOR, POSITIVE
		< CONNECTOR >
		CONNECTOR, FPC (ZIF) 12P
		MISCELLANEOUS

2		MIC FLEXIBLE BOARD
123		MOTOR FLEXIBLE BOARD COUNTER, TAPE (SMALL TYPE)
189 HE901		HEAD, MAGNETIC (ERASE)
		HEAD, MAGNETIC (RECORD/PLAYBACK)
M901		MOTOR, DC (CAPSTAN/REEL)
		MICROPHONE, ELECTRET CONDENSER
		SPEAKER (3.6 CM) SPEAKER (3.6 CM)
		DYEARER (J. 0 UM)
		S & PACKING MATERIALS
	3-800-053-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTURUESE) (Canadian, AEP, UK, E
	3-800-053-21	MANUAL, INSTRUCTION (GERMAN, DUTCH,
	3-800-053-31	SWEDISH, ITALIAN) (AEP, UK MANUAL, INSTRUCTION (ENGLISH) (US)

3-800-053-41 MANUAL, INSTRUCTION (KOREAN) (E)

 Ref. No.
 Part No.
 Description
 Remark

 3-925-233-01
 FOOT (A), RUBBER
 *

 3-925-593-01
 INDIVIDUAL CARTON (Canadian, AEP, UK, E)